

CLAIMS

- Sub B'* → 1. A non-toxic and non-corrosive ignition mixture created by combining the energy system with the pyrotechnic system characterized by the fact that the mixture composed of the energy and pyrotechnic systems consists of 5 up to 40 weight percent of a high explosive, selected from the group of nitroesters and nitramines, 5 up to 40 weight percent of a sensibilizer, which is tetrazene or salts or derivatives of tetrazoles, 5 up to 50 % of an oxidizing agent selected from the group of oxides and peroxides of metals or from the group of salts of inorganic oxygen-containing acids or from the group of complex salts, 1 up to 20 weight percent of amorphous boron as a fuel, 5 up to 30 weight percent of a friction agent and optionally 0,1 up to 5 weight percent of a bonding agent.
2. The mixture according to claim 1 characterized by the fact that the high explosive is selected from the group of nitroesters including penthrite, hexanitromannite, nitrocellulose, or from the group of nitramines including hexogene, octogene, tetryle.
3. The mixture according to claim 1 characterized by the fact that the fuel is amorphous boron with specific surface of 5 up to 25 m²/g.
4. The mixture according to claim 1 characterized by the fact that the oxidizing agent is selected from the group of metal oxides including oxides of copper, zinc, bismuth, iron, manganese, tin, vanadium and molybdenum, or from the group of metal peroxides including peroxides of zinc and calcium, or from the group of salts of inorganic oxygen-containing acids including saltpetre, basic nitrates of bismuth, tin and copper, or from the group of complex salts including diammo-copper nitrate.
5. The mixture according to claim 1 characterized by the fact that the bonding agents are nitrocellulose, polyvinyl alcohol or acacia gum.

-12-

As 6. The mixture according to claims 2 and 5 characterized by the fact that nitrocellulose applied in the organic solvent such as acetone functions, at the same time, as the bonding agent and energy component.

7. The mixture according to claim 1 characterized by the fact that the friction agent is ground glass.

As 7
At.